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<u>L15</u>	1994/ay.	1176302	<u>L15</u>
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<u>L12</u>	L9 or l5	13130	<u>L12</u>
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<u>L10</u>	L9 and 17	0	<u>L10</u>
<u>L9</u>	heparin with binding domain	595	<u>L9</u>
<u>L8</u>	l5 and L7	0	<u>L8</u>
<u>L7</u>	5834256.pn.	2	<u>L7</u>
<u>L6</u>	L5 and l4	0	<u>L6</u>
<u>L5</u>	fibronectin	12827	<u>L5</u>
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L1 5866279

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L16: Entry 4 of 8

File: USPT

Aug 13, 1996

US-PAT-NO: 5545620

DOCUMENT-IDENTIFIER: US 5545620 A

**** See image for Certificate of Correction ****TITLE: Synthetic fibronectin fragments as inhibitors of retroviral infection

DATE-ISSUED: August 13, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wahl; Sharon M.	Gaithersburg	MD		
McCarthy; James B.	Minneapolis	MN		
Furcht; Leo T.	Minneapolis	MN		

US-CL-CURRENT: 514/12, 435/236, 514/13, 514/14, 514/15, 514/16, 514/21, 514/8,
530/324, 530/325, 530/326, 530/327, 530/328, 530/345, 530/367, 530/404, 530/405,
530/408, 530/409

CLAIMS:

What is claimed is:

1. A method for inhibiting HIV-1 virus infection of mammalian cells comprising contacting the cells with an effective inhibiting amount of a fibronectin fragment or carrier molecule conjugates thereof, where the fibronectin fragment amino acid sequence is selected from the group consisting of:

YEKPGSPPRE WPRPRPGV (FN1; SEQ ID NO:1), KNNQKSEPLI GRKKT (FN2; SEQ ID NO:2), YRVRVTPKEK TGPMKE (FN3; SEQ ID NO:3), SPPRRARVT (FN4; SEQ ID NO:4), and WQPPRARI (FN5; SEQ ID NO:5). D[P]ELPQLVTLP HPNLHGPEIL DVPST (FN6; SEQ ID NO:6), and ITVYAVTGRG DSPASSKPISI (FN7; SEQ ID NO:7).

2. The method of claim 1 wherein zidovudine (AZT), dideoxyinosine, dideoxycytosine, or dideoxycytosine is used in combination with the fibronectin fragment or carrier molecule conjugate thereof.

3. A method according to claim 1 wherein the carrier molecule is ovalbumin.

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Patent Assignment Abstract of Title

Total Assignments: 2

Application #: 08536891 **Filing Dt:** 09/29/1995

Patent #: 6033907 **Issue Dt:** 03/07/2000

PCT #: NONE

Publication #: NONE

Pub Dt:

Inventor: DAVID A. WILLIAMS

Title: ENHANCED VIRUS-MEDIATED DNA TRANSFER

Assignment: 1

Reel/Frame: 008861/0293

Received:
01/08/1998

Recorded:
12/22/1997

Mailed:
02/13/1998

Pages: 22

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: INDIANA UNIVERSITY FOUNDATION

Exec Dt: 06/30/1997

Assignee: ADVANCED RESEARCH & TECHNOLOGY INSTITUTE
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Assignment: 2

Reel/Frame: 009053/0782

Received:
04/06/1998

Recorded:
03/24/1998

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05/22/1998

Pages: 2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: WILLIAMS, DAVID A.

Exec Dt: 01/22/1998

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Web interface last modified: Oct. 5, 2002

Patent Assignment Abstract of Title

Total Assignments: 5

Application #: 08218355 **Filing Dt:** 03/25/1994 **Patent #:** 5686278 **Issue Dt:** 11/11/1997

PCT #: NONE

Publication #: NONE

Pub Dt:

Inventors: DAVID A. WILLIAMS, VIKRAM P. PATEL

Title: METHODS FOR ENHANCED RETROVIRUS-MEDIATED GENE TRANSFER

Assignment: 1

Reel/Frame: 007020/0070 **Received:** 06/09/1994 **Recorded:** 06/09/1994 **Mailed:** 07/21/1994 **Pages:** 2

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: WILLIAMS, DAVID A.

Exec Dt: 04/04/1994

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Assignment: 2

Reel/Frame: <u>007984/0569</u>	Received: <u>06/18/1996</u>	Recorded: <u>04/26/1996</u>	Mailed: <u>09/13/1996</u>	Pages: <u>3</u>
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Conveyance: CONFIRMATORY LICENSE (SEE DOCUMENT FOR DETAILS).

Assignor: INDIANA UNIVERSITY

Exec Dt: 06/02/1995

Assignee: NATIONAL INSTITUTES OF HEALTH, THE

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Assignment: 3

Reel/Frame: <u>007763/0245</u>	Received: <u>01/25/1996</u>	Recorded: <u>01/04/1996</u>	Mailed: <u>04/18/1996</u>	Pages: <u>2</u>
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Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: KOON, WALTER L., JR.

Exec Dt: 08/09/1995

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Assignment: 4

Reel/Frame: 008136/0174 **Received:** 09/16/1996 **Recorded:** 09/16/1996 **Mailed:** 11/27/1996 **Pages:** 3

Conveyance: ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: PATEL, VIKRAM P.

Exec Dt: 05/28/1996

Assignee: NORTHWESTERN UNIVERSITY

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Assignment: 5

Reel/Frame: 008861/0293 **Received:** 01/08/1998 **Recorded:** 12/22/1997 **Mailed:** 02/13/1998 **Pages:** 22

Conveyance: ASSIGNMENT OF ASSIGNEES INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: INDIANA UNIVERSITY FOUNDATION

Exec Dt: 06/30/1997

Assignee: ADVANCED RESEARCH & TECHNOLOGY INSTITUTE
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